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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/533,723	05/03/2005	Kam Choon Kwong	SG 020030	7797	
24737	7590 08/10/2006		EXAMINER		
	TELLECTUAL PROP	LEVI, DAMEON E			
P.O. BOX 300 BRIARCLIFF	1 MANOR, NY 10510		ART UNIT	PAPER NUMBER	
<b></b> ,			2841		
			DATE MAILED: 08/10/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

				A			
		Applicatio	n No.	Applicant(s)			
		10/533,723	3	KWONG ET AL.			
Oπice	Action Summary	Examiner		Art Unit			
		Dameon E.		2841			
The MAIL Period for Reply	ING DATE of this communication	appears on the	cover sheet with the c	orrespondence ad	Idress		
A SHORTENED WHICHEVER IS - Extensions of time m after SIX (6) MONTH - If NO period for reply - Failure to reply within Any reply received by	STATUTORY PERIOD FOR RE LONGER, FROM THE MAILING hay be available under the provisions of 37 CFR is from the mailing date of this communication is specified above, the maximum statutory per in the set or extended period for reply will, by stay the Office later than three months after the mailing time. See 37 CFR 1.704(b).	S DATE OF THE R 1.136(a). In no ever riod will apply and will atute, cause the applie	S COMMUNICATION  nt, however, may a reply be time  expire SIX (6) MONTHS from the cation to become ABANDONEI	. ely filed the mailing date of this c O (35 U.S.C. § 133).			
Status							
1) Responsiv	e to communication(s) filed on 03	7/27/2006 (RCL	<u>≣)</u> .				
2a) This action	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in a	accordance with the practice unde	er Ex parte Qua	ayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Clair	ns						
4a) Of the 3 5) ☐ Claim(s) _ 6) ☑ Claim(s) <u>1</u> 7) ☐ Claim(s) _	<ul> <li>8 is/are pending in the application</li> <li>above claim(s) is/are without</li> <li>is/are allowed.</li> <li>8 is/are rejected.</li> <li>is/are objected to.</li> <li>are subject to restriction an</li> </ul>	drawn from con					
Application Papers							
10)⊠ The drawin Applicant m Replaceme	cation is objected to by the Examing(s) filed on <u>03 May 2005</u> is/are: nay not request that any objection to not drawing sheet(s) including the coring declaration is objected to by the	a)⊠ accepted the drawing(s) be rection is require	e held in abeyance. See d if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C			
Priority under 35 U	.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of Reference			4) Interview Summary				
	rson's Patent Drawing Review (PTO-948) sure Statement(s) (PTO-1449 or PTO/SB Date		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		O-152)		

## **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, Applicant's submission filed on 07/27/2006 has been entered. The Office Action follows below.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Noji et al US Patent 4494095.

Regarding claim 1, Noji et al discloses a device comprising:

a frame(element 11, Figs 1-12) provided with an outer side wall and leg
sections(element 11a, Figs 1-12) extending from said walls, and
a printed circuit board(element 10, Figs 1-12) having a plurality of spaced
holes(element 10h, Figs 1-12), said leg sections extending through respective holes and
being soldered to said printed circuit board so as to couple said frame to said printed

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circuit board, said printed circuit board having a part provided with at least one of said spaced holes and extending through said outer side wall(see elements 11, 11a, see protruding part of element 10 at vicinity of element 10a, Fig 4).

Regarding claim 2, Noji et al discloses wherein said outer side wall is provided with at least one cut-out part, in which said leg section is located and through which said part of said printed circuit board extends upon coupling said frame to said printed circuit board(see cut-out between elements 11a, Figs 1-12).

Regarding claim 3, Noji et al discloses wherein said frame further comprises a plurality of outer side walls each provided with respective leg sections, said leg sections extending through respective holes located in respective parts of the printed circuit board, which extend through said outer side walls(see elements 11, 11a, 10a, figs 1-12).

Regarding claim 4, Noji et al discloses wherein said frame further comprises one or more inner walls bridging said outer side wall and provided with respective leg sections(see elements 12, 12a, respectively, Figs 1-12).

Regarding claim 5, Noji et al discloses wherein said printed circuit board frame(elements 10, Figs 1-12) comprises inner and outer parallel surfaces delimited by said outer side wall and having one or more second throughgoing holes(elements 10b, Figs 1-12) of said plurality of spaced holes, said throughgoing holes being configured to respective leg sections(elements 12a, Figs 1-12) of said frame upon coupling said frame to said printed circuit board.

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Regarding claim 6, Noji et al discloses wherein said printed circuit board extends perpendicularly to the outer side wall of said frame upon coupling said frame to said printed circuit board(see elements 11, see protruding part of element 10 at vicinity of element 10a, Fig 4).

Claims 7 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Ito et al US Patent 4325103.

Regarding claim 7, Ito et al discloses a device comprising:

a frame (elements 11, Figs 4-17) provided with a side wall(elements 12, Figs 4-17); and, a printed circuit board(elements 3, Figs 4-17) having a plurality of spaced peripheral extensions(elements 35a,b, 36a,b, 37a,b, Figs 4-17), said side wall of said frame and said peripheral extensions comprising respective formations engaging one another upon coupling said frame to said printed circuit board,

wherein the peripheral-extensions extend through the side wall(elements 35a,b, 36a,b, 37a,b, Figs 14a-14d).

Regarding claim 8, Ito et al discloses wherein the formations include a plurality of holes and a plurality of leg sections to extend through the holes upon coupling said frame to said printed circuit board(elements 31a, 31b, 513a,513b, Figs 7a-14c).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dameon E. Levi whose telephone number is (571) 272-2105. The examiner can normally be reached on Mon.-Fri. (9:00 - 5:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dameon E Levi

Examiner

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DEL

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